

CLAIMS

What is claimed is:

- 1 1. A method for user agent operation, comprising:
  - 2 (a) accessing a network site utilizing a network;
  - 3 (b) simulating user interaction for navigating the network site based on client
  - 4 specifications;
  - 5 (c) retrieving a web page from the site;
  - 6 (d) assigning identifiers to elements of the web page;
  - 7 (e) rendering the web page for further processing;
  - 8 (f) rendering dynamic content of the web page; and
  - 9 (g) returning the rendered web page to the client in a markup language.
- 1 2. The method as recited in claim 1, further comprising navigating from the web
- 2 page.
- 1 3. The method as recited in claim 2, wherein navigating from the web page
- 2 includes at least one of selecting links on a web page, submitting forms, and
- 3 firing scripting events.
- 1 4. The method as recited in claim 1, wherein the client is informed of changed
- 2 frames.
- 1 5. The method as recited in claim 1, wherein specified frames are sent to the client.

- 1 6. The method as recited in claim 1, wherein a network interface is provided.
- 1 7. The method as recited in claim 1, wherein a Component Object Model (COM)  
2 interface is provided.
- 1 8. The method as recited in claim 1, wherein the rendered content is output to a  
2 wireless user device.
- 1 9. A computer program product for user agent operation, comprising:  
2 (a) computer code for accessing a network site utilizing a network;  
3 (b) computer code for simulating user interaction for navigating the network site  
4 based on client specifications;  
5 (c) computer code for retrieving a web page from the site;  
6 (d) computer code for assigning identifiers to elements of the web page;  
7 (e) computer code for rendering the web page for further processing;  
8 (f) computer code for rendering dynamic content of the web page; and  
9 (g) computer code for returning the rendered web page to the client in a markup  
10 language.
- 1 10. A system for user agent operation, comprising:  
2 (a) logic for accessing a network site utilizing a network;  
3 (b) logic for simulating user interaction for navigating the network site based on  
4 client specifications;  
5 (c) logic for retrieving a web page from the site;  
6 (d) logic for assigning identifiers to elements of the web page;  
7 (e) logic for rendering the web page for further processing;  
8 (f) logic for rendering dynamic content of the web page; and  
9 (g) logic for returning the rendered web page to the client in a markup language.

- 1 11. A method for user agent operation, comprising:
- 2 (a) accessing a network site utilizing a network;
- 3 (b) simulating user interaction for navigating the network site based on client
- 4 specifications;
- 5 (c) retrieving a web page from the site;
- 6 (d) assigning identifiers to elements of the web page;
- 7 (e) rendering the web page for further processing;
- 8 (f) rendering dynamic content of the web page; and
- 9 (g) returning the rendered web page to the client in a markup language;
- 10 (h) wherein the client performs further processing.
- 1 12. The method as recited in claim 11, further comprising navigating from the web
- 2 page.
- 1 13. The method as recited in claim 12, wherein navigating from the web page
- 2 includes at least one of selecting links on a web page, submitting forms, and
- 3 firing scripting events.
- 1 14. The method as recited in claim 11, wherein the client is informed of changed
- 2 frames.
- 1 15. The method as recited in claim 11, wherein specified frames are sent to the
- 2 client.
- 1 16. The method as recited in claim 11, wherein a network interface is provided.
- 1 17. The method as recited in claim 11, wherein a Component Object Model (COM)
- 2 interface is provided.

1 18. The method as recited in claim 11, wherein the rendered content is output to a  
2 wireless user device.

1 19. The method as recited in claim 11, wherein the further processing includes  
2 repeating acts (b)-(g).

1 20. A computer program product for user agent operation, comprising:

- 2 (a) computer code for accessing a network site utilizing a network;  
3 (b) computer code for simulating user interaction for navigating the network site  
4 based on client specifications;  
5 (c) computer code for retrieving a web page from the site;  
6 (d) computer code for assigning identifiers to elements of the web page;  
7 (e) computer code for rendering the web page for further processing;  
8 (f) computer code for rendering dynamic content of the web page; and  
9 (g) computer code for returning the rendered web page to the client in a markup  
10 language;  
11 (h) wherein the client performs further processing.

1 21. A system for user agent operation, comprising:

- 2 (a) logic for accessing a network site utilizing a network;  
3 (b) logic for simulating user interaction for navigating the network site based on  
4 client specifications;  
5 (c) logic for retrieving a web page from the site;  
6 (d) logic for assigning identifiers to elements of the web page;  
7 (e) logic for rendering the web page for further processing;  
8 (f) logic for rendering dynamic content of the web page; and  
9 (g) logic for returning the rendered web page to the client in a markup language;  
10 (h) wherein the client performs further processing.

- 1 22. A method for user agent operation, comprising:
- 2 (a) accessing a network site utilizing a network;
- 3 (b) simulating user interaction for navigating the network site based on client
- 4 specifications;
- 5 (c) retrieving a web page from the site;
- 6 (d) assigning identifiers to elements of the web page;
- 7 (e) rendering the web page for further processing;
- 8 (f) rendering dynamic content of the web page;
- 9 (g) returning the rendered web page to the client in a markup language;
- 10 (h) wherein specified frames of the web page are sent to the client; and
- 11 (i) navigating from the web page;
- 12 (j) wherein navigating from the web page includes at least one of selecting links on
- 13 a web page, submitting forms, and firing scripting events;
- 14 (k) wherein the client performs further processing;
- 15 (l) wherein the client is informed of changed frames;
- 16 (m) wherein the rendered content is output to a wireless user device.
- 1 23. The method as recited in claim 22, further comprising repeating acts (b)-(g).